Amendments to the Claims

Please amend the claims as follows:

1. (Currently Amended) A method comprising:

obtaining a set of multiple images of a target feature location on a[[n]] biopolymer array of multiple features, each image of the set representing the target feature location following deposition of a corresponding sub-set of multiple droplets for that feature; and

generating an overlay composite from the image set.

2. (Previously presented) A method according to claim 1 wherein the overlay composite comprises a region of overlap of the droplet sub-sets.

3. (Currently Amended) [[A]]The method according to claim 1 ~~wherein~~comprising:

obtaining sets of multiple images for multiple target feature locations on an array, wherein ~~multiple image sets are obtained of respective multiple target feature locations,~~ each image set ~~representing~~ represents a corresponding target feature location and in which each image represents the target feature location following deposition of a corresponding droplet sub-set for that target feature; and

an overlay composite is generated from each of the image sets.

4. (Withdrawn) A method of fabricating a[[n]] biopolymer array of features, comprising:

depositing multiple reagent droplets for each of multiple target feature locations so as to form the array of features;

obtaining a set of multiple images of a target feature location, each image of the set representing the target feature location following deposition of a corresponding sub-set of multiple droplets for that feature; and

generating an overlay composite from the image set.

5. (Withdrawn) A method according to claim 4 wherein the multiple reagent droplets are ejected from a pulse-jet.

6. (Withdrawn) A method according to claim 4 wherein the overlay composite comprises a region of overlap of the droplet sub-sets.

7. (Withdrawn) A method according to claim 4 wherein multiple image sets are obtained of respective multiple target feature locations, each image set representing a corresponding target feature location and in which each image represents the location following deposition of a corresponding sub-set of multiple droplets for that feature.

8. (Withdrawn) A method according to claim 7 wherein each set is obtained from multiple captured images each of which simultaneously includes multiple target feature locations following a cycle of droplet depositions at those locations.

9. (Withdrawn) A method according to claim 4 wherein the array is a biopolymer array.

10. (Withdrawn) A method according to claim 4 wherein the array is a polynucleotide array and the set of images includes, for all nucleotide droplets for the feature, an image representing the target feature location following deposition of all droplets for a corresponding one of the nucleotide monomers.

11. (Withdrawn) A method according to claim 4 additionally comprising either altering the deposition of additional droplets for the feature, or of droplets for other features on the same or another array, based at least in part on the overlay composite.

12. (Withdrawn) A method according to claim 4 wherein the overlay composite is stored on a storage medium and forwarded to a remote user of the array.

13. (Withdrawn) A method of fabricating an array of features, comprising:

depositing multiple reagent droplets for each of multiple target feature locations so as to form the array of features;

obtaining a set of multiple images of a target feature location, each image of the set representing the target feature location following deposition of a corresponding sub-set of multiple droplets for that feature; and

storing the set on a storage medium.

14. (Withdrawn) A method according to claim 13 wherein the multiple droplets are deposited from a pulse-jet.

15. (Withdrawn) A method according to claim 13 wherein the set is stored on a storage medium and forwarded to a remote user of the array.

16. (Previously presented) A method according to claim 1 additionally comprising:

exposing the array to a sample;

interrogating the array following the exposure and optionally processing results of the interrogation;

wherein either the interrogation or processing is based at least in part on the overlay composite.

17. (Withdrawn) A method according to claim 15 wherein a result of the interrogation or processing is forwarded to a remote location.

18. (Withdrawn) A method comprising transmitting data representing a result of the interrogation or processing from the method of claim 17.

19.-34. (Cancelled).

35. (New) The method of claim 1, wherein each droplet is a reagent droplet deposited in a cycle of in situ synthesis of a biopolymer at the target feature location on the array.

36. (New) The method of claim 1, wherein each droplet is ejected from a pulse-jet.

37. (New) The method of claim 1, wherein each droplet is a phosphoramidite droplet.

38. (New) A method of providing information of a target feature of a biopolymer array, the method comprising:

a) depositing at least one reagent droplet on a target feature location of the array;

b) obtaining an image of the target feature location,

c) repeating steps a) and b) to compile a set of two or more images representing the target feature location following deposition of droplets; and

d) generating an overlay composite from the set of images, wherein the overlay composite provides information on the target feature.

39. (New) The method of claim 38, wherein steps a) and b) represent at least one cycle of in situ synthesis of a target feature.

40. (New) The method of claim 38, wherein compiling a set of two or more images representing the target feature location further comprises collecting an image following deposition of 1 to 5 droplets.

41. (New) The method of claim 38, wherein compiling a set of two or more images representing the target feature location further comprises collecting an image following deposition of 1 to 10 droplets.

42. (New) A method according to claim 38, wherein the reagent droplet is deposited by a pulse-jet.

43. (New) A method according to claim 38 wherein the overlay composite comprises a region of overlap of the droplets.

44. (New) The method according to claim 38, wherein the method is performed simultaneously for multiple target feature locations.

45. (New) A method according to claim 38, wherein the array is a polynucleotide array, and wherein each image represents the target feature location following deposition of at least one droplet of a nucleotide monomer.

46. (New) The method of claim 38, wherein the information is size, shape, or location of the target feature.

47. (New) The method according to claim 46, additionally comprising altering the deposition of additional droplets for the target feature based at least in part on the overlay composite.

48. (New) The method of claim 16, wherein the overlay composite controls interrogation at the target feature of the array.